

SI* (MODERN METRIC) CONVERSION FACTORS

APPROXIMATE CONVERSIONS TO SI UNITS

WHEN YOU KNOW

MULTIPLY BY

TO FIND

Length

| | | |
|-------------|-------|------------------|
| inches (in) | 25.4 | millimeters (mm) |
| feet (ft) | 0.305 | meters (m) |
| yards (yd) | 0.914 | meters (m) |
| miles (mi) | 1.61 | kilometers (km) |

Area

| | | |
|---------------------------------|-------|--------------------------------------|
| square inches (in^2) | 645.2 | square millimeters (mm^2) |
| square feet (ft^2) | 0.093 | square meters (m^2) |
| square yards (yd^2) | 0.836 | square meters (m^2) |
| acres (ac) | 0.405 | hectares (ha) |
| square miles (mi^2) | 2.59 | square kilometers (km^2) |

Volume

| | | |
|-------------------------------|-------|-------------------------------|
| fluid ounces (fl oz) | 29.57 | milliliters (mL) |
| gallons (gal) | 3.785 | liters (L) |
| cubic feet (ft^3) | 0.028 | cubic meters (m^3) |
| cubic yards (yd^3) | 0.765 | cubic meters (m^3) |

Note: Volumes greater than 1000 L shall be shown in m^3

Mass

| | | |
|--------------------------|-------|-----------------|
| ounces (oz) | 28.35 | grams (g) |
| pounds (lb) | 0.454 | kilograms (kg) |
| short tons (2000 lb) (T) | 0.907 | metric tons (t) |

Pressure

| | | |
|------------------------------|--------|------------------|
| pounds per square inch (psi) | 0.0069 | megapascal (MPa) |
|------------------------------|--------|------------------|

Temperature

| | | |
|---|--------------------|--|
| Fahrenheit temperature ($^{\circ}\text{F}$) | $5(\text{F}-32)/9$ | Celcius temperature ($^{\circ}\text{C}$) |
|---|--------------------|--|

*SI is the symbol for the International System of Measurement.

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Length

| | | |
|------------------|-------|-------------|
| millimeters (mm) | 0.039 | inches (in) |
| meters (m) | 3.28 | feet (ft) |
| meters (m) | 1.09 | yards (yd) |
| kilometers (km) | 0.621 | miles (mi) |

Area

| | | |
|--------------------------------------|--------|---------------------------------|
| square millimeters (mm^2) | 0.0016 | square inches (in^2) |
| square meters (m^2) | 10.764 | square feet (ft^2) |
| hectacres (ha) | 2.47 | acres (ac) |
| square kilometers (km^2) | 0.386 | square miles (mi^2) |

Volume

| | | |
|-------------------------------|--------|-------------------------------|
| milliliters (mL) | 0.034 | fluid ounces (fl oz) |
| liters (L) | 0.264 | gallons (gal) |
| cubic meters (m^3) | 35.315 | cubic feet (ft^3) |
| cubic meters (m^3) | 1.308 | cubic yards (yd^3) |

Mass

| | | |
|-----------------|-------|-----------------------|
| grams (g) | 0.035 | ounces (oz) |
| kilograms (kg) | 2.205 | pounds (lb) |
| metric tons (t) | 1.102 | short tons (2000) (T) |

Pressure

| | | |
|-------------------|--------|------------------------------|
| megapascals (MPa) | 145.04 | pounds per square inch (psi) |
|-------------------|--------|------------------------------|

Temperature

| | | |
|--|--------------------|---|
| Celcius temperature ($^{\circ}\text{C}$) | $1.8\text{C} + 32$ | Fahrenheit temperature ($^{\circ}\text{F}$) |
|--|--------------------|---|